

DRIVE PIN FOR FASTENING A MATERIAL TO A METAL BASE MEMBER

ABSTRACT OF THE DISCLOSURE

A drive pin (20) for the fastening of a material (22) to a sheet-metal framing member (24) with an automatic nailer is provided. The drive pin (20) has a head (26), a substantially cylindrical shank (28) having a base diameter (30) in a range of 0.0625 to 0.125 inch, and a ballistic tip (40) configured to penetrate the material (22) and the framing member (24) under force of the automatic nailer. A knurl (42) is formed upon the shank (28). The knurl (42) has at least seven and no more than fourteen substantially parallel spiral grooves (32) having a minor diameter (58) less than the shank base diameter (30). Adjacent spiral grooves (32) are separated by substantially unbroken spiral ridges (34) having a major diameter (62) greater than the shank base diameter (30). The spiral grooves (32) and ridges (34) together form a plurality of threads (44) rolled full upon the shank (28) at an angle (54) of substantially 26 ± 2 degrees relative to an axis (46) of the shank (28).